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9	23	(context adj aware) and node same (tree or hierarch\$6) and	USPAT;	2004/09/16 07:32
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10	12	(context adj aware) and node same (tree or hierarch\$6) same	USPAT;	2004/09/16 07:34
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19	2	( (active adj map)) and node same (tree or hierarch\$6) same	IBM_TDB	0004/00/40 07 00
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21	18	( (active adj map)) and node and (tree or hierarch\$6)	USPAT;	2004/09/16 07:42
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22	0	(( (active adj map)) and (located adj object) ) and (node or	USPAT;	2004/09/16 07:42
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26	44	(( node same (tree or hierarch\$6) same link\$3) and (second	USPAT;	2004/09/16 07:50
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27	44	((( node same (tree or hierarch\$6) same link\$3) and (second	USPAT;	2004/09/16 08:00
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28	7	(( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree or hierarch\$6) ) and ((goods! or food) and (services! or bank\$3)) same node	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/16 07:51
25	187	( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree or hierarch\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/16 07:59
29	114	( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/16 07:59
30	110	(( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree) ) and (first same second) same tree	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/16 08:00
31	52	(( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree) ) and (first adj tree) same (second adj tree)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/16 08:01
32	16	(( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree) ) and (first adj tree) same (second adj tree) same link\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/16 08:04
33	112	(( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree) ) and (first ad2j tree) same (second ad2j tree) same link\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/16 08:06
34	112	((( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree) ) and (first ad2j tree) same (second ad2j tree) same link\$3) not (miscrosoft).as.	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/16 08:06
35	21	(( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree) ) and (first adj2 tree) same (second adj2 tree) same link\$3	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/16 08:19
36	21	((( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree) ) and (first adj2 tree) same (second adj2 tree) same link\$3) not (miscrosoft) as.	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/16 08:06
37	1	(( node same (tree or hierarch\$6) same link\$3) and (second or "other" or "another") adj (tree) ) and (first adj hierarch\$6 adj tree) same (second adj hierarch\$6 adj tree) same link\$3	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/16 08:07
38	1	(first adj hierarch\$6 adj tree) same (second adj hierarch\$6 adj tree) same link\$3	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/16 08:17
39	57	( node same (tree or hierarch\$6) same link\$3) and second adj6 context	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 08:18

40	1	(( node same (tree or hierarch\$6) same link\$3) and second	USPAT;	2004/09/16 08:21
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42	7	( node same (tree or hierarch\$6) same link\$3) and context	USPAT;	2004/09/16 08:20
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43	9	( node same (tree or hierarch\$6) same link\$3) and context	USPAT;	2004/09/16 08:20
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41	60	( node same (tree or hierarch\$6) same link\$3) and context	USPAT;	2004/09/16 08:21
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44	1	(( node same (tree or hierarch\$6) same link\$3) and context	USPAT;	2004/09/16 08:22
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1 Exploiting space and location as a design framework for interactive mobile systems Alan Dix, Tom Rodden, Nigel Davies, Jonathan Trevor, Adrian Friday, Kevin Palfreyman September 2000 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 7 Issue 3

Full text available: pdf(282.97 KB)

Additional Information: full citation, abstract, references, citings, index terms

This article considers the importance of context in mobile systems. It considers a range of context-related issues and focus on location as a key issue for mobile systems. A design framework is described consisting of taxonomies of location, mobility, population, and device awareness. The design framework inorms the construction of a semantic model of space for mobile systems. The semantic model is reflected in a computational model built on a distriuted platform that allows contextual info ...

Keywords: awareness, context information, design framework, location-sensitive applications, mobile systems, platform support, shared interaction, virtual space

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Exploiting space and location as a design framework for interactive mobile systems

Alan Dix, Tom Rodden, Nigel Davies, Jonathan Trevor, Adrian Friday, Kevin Palfreyman

September 2000 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 7 Issue 3

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**Keywords:** awareness, context information, design framework, location-sensitive applications, m shared interaction, virtual space

<sup>2</sup> Data-centric storage in sensornets with GHT, a geographic hash table

Sylvia Ratnasamy, Brad Karp, Scott Shenker, Deborah Estrin, Ramesh Govindan, Li Yin, Fang Yu August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4

Full text available: pdf(255.10 KB)

Additional Information: full citation, abstract, references, citings, i

Making effective use of the vast amounts of data gathered by large-scale sensor networks (senso organizing, and energy-efficient data dissemination algorithms. For sensornets, where the contenthan the identity of the node that gathers them, researchers have found it useful to move away for communication abstraction and instead adopt abstractions that are more data-centric. This approximation

Keywords: algorithms, distributed systems, performance, sensor networks

<sup>3</sup> Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on C

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index tell

Understanding distributed applications is a tedious and difficult task. Visualizations based on procto obtain a better understanding of the execution of the application. The visualization tool we use at the University of Waterloo. However, these diagrams are often very complex and do not provid overview of the application. In our experience, such tools display repeated occurrences of non-triv



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Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on C research

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Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on proc diagrams are often used to obtain a better understanding of the execution of the application. The tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diag very complex and do not provide the user with the desired overview of the application. In our exp tools display repeated occurrences of non-trivial commun ...

2 Astrolabe: A robust and scalable technology for distributed system monitoring, management mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 Issue 2

Full text available: pdf(341.62 KB)

Additional Information: full citation, abstract, references, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for of large-scale, highly dynamic, distributed applications. We have developed an entirely new distril information management system called Astrolabe. Astrolabe collects large-scale system state, per updates and providing on-the-fly attribute aggregation. This latter capability permits an applicatic resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subs

The design and implementation of an intentional naming system

William Adjie-Winoto, Elliot Schwartz, Hari Balakrishnan, Jeremy Lilley

December 1999 ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth AC on Operating systems principles, Volume 33 Issue 5

Full text available: ndf(1.77 MB)

Additional Information: full citation, abstract, references, citings, index ter

This paper presents the design and implementation of the Intentional Naming System (INS), a reand service location system for dynamic and mobile networks of devices and computers. Such enrequire a naming system that is (i) expressive, to describe and make requests based on specific p